Затворы обратные серии Check Rite 210

Технические характеристики



Архангельск (8182)63-90-72 **А**стана (7172)727-132 **А**страхань (8512)99-46-04 **Б**арнаул (3852)73-04-60 Белгород (4722)40-23-64 **Б**рянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 **Е**катеринбург (343)384-55-89 Иваново (4932)77-34-06

Ижевск (3412)26-03-58 **И**ркутск (395)279-98-46 **К**азань (843)206-01-48 **К**алининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 **К**раснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 **Л**ипецк (4742)52-20-81 Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 **Н**ижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42

Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 **О**ренбург (3532)37-68-04 Сочи (862)225-72-31 Пенза (8412)22-31-16 Ставрополь (8652)20-65-13 Казахстан (772)734-952-31 **Т**аджикистан (992)427-82-92-69

Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15

Рязань (4912)46-61-64

Самара (846)206-03-16

Саратов (845)249-38-78

Севастополь (8692)22-31-93

Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 **Т**ула (4872)74-02-29 Санкт-Петербург (812)309-46-40 Тюмень (3452)66-21-18 **У**льяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 **Ч**елябинск (351)202-03-61 Череповец (8202)49-02-64 **Я**рославль (4852)69-52-93

Ritepro Corporation, headquartered in Quebec, Canada and founded in 1963, designs and manufactures exceptional Check Rite check valves, cam and groove quick couplings, and fluid handling loading and unloading equipment. For over 40 years, Ritepro has earned a reputation for reliability. This reputation is based on our highest quality manufacturing standards, premium components and thorough control procedures. With a worldwide sales and distribution network, we offer our customers full support wherever the project location.

individual solutions to industry needs and will assist you with your project requirements. Our knowledgeable sales and support staff are committed to outstanding service and, above all, customer satisfaction. We look forward to recommending a practical and economical solution to your fluid control applications.

Our engineers specialize in innovative,

Затворы обратные серии Check Rite 210

Ritepro's Check Rite wafer combination swing check valves are activated and Rite Sized. Check Rite inlet ports and disc have been shape optimized to achieve a fully open position at low flow rates (3 ft/s on average). Therefore, the Check Rite operates exceptionally well in the flow rates typically found in pipelines containing control valves and lines with varying media flows.

Compare the Check Rite to typical full-sized swing check valves. Due in part to their oversized, heavier discs, these valves only fully open at an average flow rate of 11 ft/s. When activated at a lower flow rate, these valves loose true controllability and do not fully open. A partially open disc creates an obstruction that produces a higher pressure drop and fluttering of the valve disc – disturbing the flow and increasing the chance of water hammer.

Check Rite is Rite Sized to eliminate these problems. It has been engi-neered to accelerate line media through the valve and achieve a virtually unobstructed full opening in low pressure. Rite Sized, combined with the limited movement of internal parts during operation, reduces wear - enhancing the long service life of a Check Rite valve.

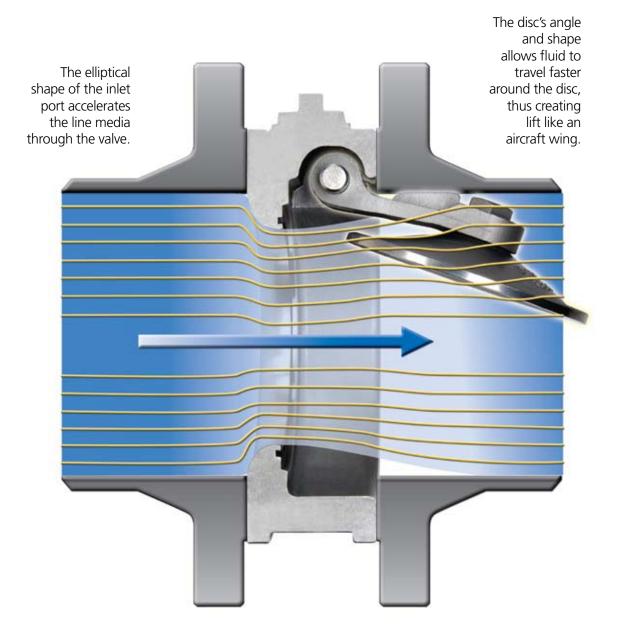


ZERO LEAKAGE Check Rite valves, either resilient or metal seated, offer zero leakage in all pressure classifications. Each valve is hydrostatically tested at the factory and shipped with a certificate of compliance to MSS SP61. Ritepro has achieved zero leakage metal-to-metal sealing by a proven, engineered design backed by high quality manufacturing craftsmanship. As the disc closes toward the seat, the increased velocity of the line media and the unique shape of our seat remove all particles from the sealing surfaces – ensuring zero leakage.

LOW PRESSURE DROPS The low pressure drop of the Check Rite valve was achieved by Ritepro's many years of research and development in combination with universities and federal research agencies. Several theses and papers were published including *Minimizing the pressure loss of wafer type swing check valve ASME 79/MA-NE-5*. These results – primarily the optimum valve diameter and elliptical inlet shape – have been incorporated into the Check Rite design. Like a venturi, the aerodynamic shape accelerates the line media through the valve with the lowest possible pressure drop. Pressure drops at the full open position are between 0.5 to 0.7 psi for all size valves. Additionally, the disc shape and mass have been optimized to use the pipeline media flow as a lifting force on the disc, thus allowing a full open valve position in low line velocity.

HIGH FLOW CAPACITY Check Rite's valve inlet elliptical shape and optimum diameter, plus its virtually unobstructed opening combine to produce a substantially higher flow capacity (C_V) than other wafer combination swing check valves.

REDUCED WATER HAMMER An additional focus of Ritepro's R&D program was linked to Water Hammer Prediction. Findings were applied in the design of the valve to largely reduce or eliminate water hammer by closing the valve at the right moment (before reverse flow occurs). The Check Rite uses gravity, assisted by an internal spring, to pull the disc toward the closed position on decelerating line media flow. Ritepro has developed proprietary predictive software to select the best solution for your specific application.



CHECK RITE SEATS Zero leakage shut off, even at 0 psi, is achieved through lapped metal seating surfaces. The seat and the disc edges are precisely machined then hand polished for a perfect fit. The disc hinge provides an even force at the disc to seat contact point, ensuring a uniform seal. Controlled tolerances maintain the proper disc to seat alignment. The spring assisted closure tension holds the disc in place when line pressure is removed.

RESILIENT SEATS A dynamic, O-ring seat is contained in a specially designed body groove. As line pressure is applied, the valve disc uniformly compresses the seat into the groove ensuring a zero leakage seal. The seat is easily replaced, simplifying maintenance.

METAL-TO-METAL SEATS Integral metal seats feature an engineered and precision machined angle that minimizes the metal-to-metal contact point between the disc and seat for a perfect seal. Pressure is applied evenly over the disc, eliminating galling and reducing wear.

METAL SEAT INSERT Carbon steel and ductile iron bodies have a stainless steel seat inserted into the body seal area, offering the same precision design as the integral metal-to-metal seat. These bodies are also available with a Resilient Seat Insert.

INHERENTLY FIRE SAFE All Check Rite valves are inherently fire safe due to the valve design, materials and construction. In the event of a pipeline fire, both resilient seated and metal seated valves provide metal-to-metal contact between the seat and disc and surpass all leak test standards.

Pressure Drop with Water

Cv	Fully (Open	Approx Pressure Drop w/Water		
	GPM	Ft/sec.	PSI		
30	28	10.4	0.78		
38	68	10.7	2.1		
84	46	4.4	1.7		
137	76	5.1	1.4		
221	197	8.5	1.1		
373	157	4	1.4		
679	352	5.6	1.1		
931	367	4.1	1.5		
1,440	428	2.7	1.6		
2,623	837	3.4	1.1		
3,531	1,229	3.5	1.2		
3,226	1,180	2.7	2		
3,911	1,447	2.5	2.6		
	3,376	4.8	1.7		
7,769	6,500	6.3	1.5		
10,105	8,321		1.6		
14,100	9,250	5.3	1.5		
18,041	10,303	5.1	0.9		
20,900	12,150	5.0	1.4		
25,675	15,850	5.2	2		
39,340	25,310	6.1	2.4		
47,914	31,304	7.5	2.7		
44,983		5.9	1.6		
63,000	45,000		.9		
70,500	62,800	6.2	1.1		
	30 38 84 137 221 373 679 931 1,440 2,623 3,531 3,226 3,911 5,799 7,769 10,105 14,100 18,041 20,900 25,675 39,340 47,914 44,983 63,000	Cv Fully of Val 30 28 38 68 84 46 137 76 221 197 373 157 679 352 931 367 1,440 428 2,623 837 3,531 1,229 3,226 1,180 3,911 1,447 5,799 3,376 7,769 6,500 10,105 8,321 14,100 9,250 18,041 10,303 20,900 12,150 25,675 15,850 39,340 25,310 47,914 31,304 44,983 33,095 63,000 45,000	GPM Ft/sec. 30 28 10.4 38 68 10.7 84 46 4.4 137 76 5.1 221 197 8.5 373 157 4 679 352 5.6 931 367 4.1 1,440 428 2.7 2,623 837 3.4 3,531 1,229 3.5 3,226 1,180 2.7 3,911 1,447 2.5 5,799 3,376 4.8 7,769 6,500 6.3 10,105 8,321 5.9 14,100 9,250 5.3 18,041 10,303 5.1 20,900 12,150 5.0 25,675 15,850 5.2 39,340 25,310 6.1 47,914 31,304 7.5 44,983 33,095 5.9 63,000 45,000 6		

Notice the full open stable minimum velocity and the efficiency calculated at a normal velocity of 10 f/sec.

Resilient Seat



Metal-To-Metal Seat



Metal Seat Insert





PUMPING COST SAVINGS Pumping costs have been often overlooked but are now gaining in importance due to the increasing cost of energy. With Check Rite's long service life, its cost is actually insignificant to the end user

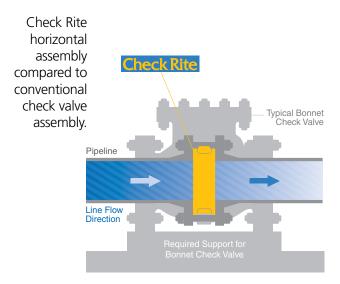
compared to the energy lost pumping the fluid through the valve. Below is a comparison between different valve styles, assuming all valves are 100% open.

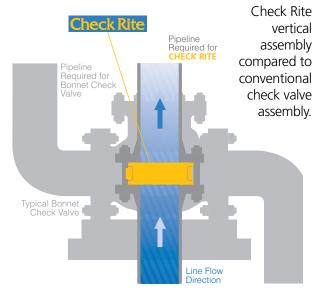
Yearly Energy Costs At 10 F/S - \$0.10/kWh

VALVE SIZE / INCHES	2	2.5	3	4	5	6	8	10	12
Check Rite	\$42	\$66	\$99	\$174	\$250	\$254	\$635	\$872	\$1,113
Tilting Disc	\$50	\$66	\$102	\$161	\$250	\$272	\$425	\$606	\$739
Center Guided "Silent"	\$115	\$214	\$339	\$608	\$1,002	\$1,409	\$2,541	\$4,006	\$3,447
Full Size Swing Check	\$57	\$66	\$99	\$191	\$250	\$415	\$680	\$1,002	\$1,347
Dual Door	\$218	\$209	\$314	\$441	\$491	\$707	\$979	\$1,118	\$1,282

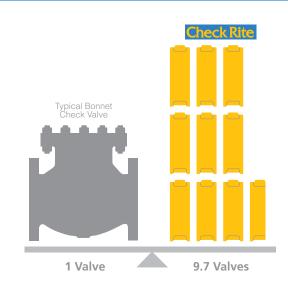
HORIZONTAL / VERTICAL INSTALLATION

Unlike most conventional check valves, Check Rite wafer combination swing check valves are ideal for both horizontal and vertical pipeline installation – requiring only a single line for operation. This greatly increases pipeline layout flexibility and significantly reduces costs. In vertical installations, typical swing check valves must have an offset pipe section installed since these valves only function in a horizontal position. See factory for vertical down applications.





LIGHT WEIGHT & REDUCED SIZE Installation costs are greatly reduced by Check Rite's light weight and minimal space requirements. Their compact design minimizes the distance between faces and are easily installed between all flanges. Check Rite valves do not require added support to maintain pipeline integrity and need only 30% of the space of typical full size swing check valves.



Ritepro has designed and manufactured an extensive range of accessories for special applications.

Some commonly used accessories and a PVC body uniquely designed for a specific application are shown below. Check Rite valves can be fitted with any one or a combination of accessories, including safety caging.

EXTERNAL LEVER & SPRINGS (SA-01)

Provide additional external force to anticipate closure in applications where rapid media flow reversal requires the valve to close faster than standard.

Applications: Pump protection when pumping in parallel into a common header.



EXTERNAL LEVER & COMPRESSION SPRING (SA-40)

Provide additional force to anticipate valve closure, using an enclosed compression spring, in applications where rapid media flow reversal requires the valve to close faster than standard.

Applications: Pump protection when pumping in parallel into a common header, where spring force required is higher than a SA-01 or if an enclosed spring is preferred.



EXTERNAL LEVER & WEIGHT (SA-16)

Provide additional external mass to increase the cracking pressure (pressure required to open the disc) and increase the closing force of the moving disc.

Applications: Where increased cracking pressure is required. Waste Water service or where suspended solids are present in the process (the weight will insure inertia induced positive closure). Relief valve with adjustable cracking pressure.



EXTERNAL LEVER, SPRING & WEIGHT (SA-1)

These units use the combination of a weight and spring to add cracking pressure and closing force to the disc.

Applications: Where performing both functions of faster closure and solid handling are required, primarily in waste water.



DUAL WEIGHTS (SA-10)

Two opposing weights, one to adjust cracking pressure and one to counter balance the disc.

Applications: Insures valve is fully open on very low flows.



HYDRAULIC PNEUMATIC SPEED CONTROLS (H-100, SA-50)

Slow the opening of the valve to protect the disc assembly in the last few degrees of travel. These units offer adjustable speed control and are ideal in fluctuating flow applications. The H-100 uses the SA-01 spring. The SA-50 uses the SA-40 compression spring.



LIMIT SWITCH (SA-2)

Provides remote indication of valve position and a positive indication of flow. If two are installed the first shows the closed position, the second the fully opened valve. (A partially opened valve is subject to



PVC (PEZ SA-4AX)

PVC Body with passivated stainless steel or titanium internals and position indication lever. Eliminates internal body corrosion.

Applications: Used for Salt water, marine life support systems, desalination applications.



SELECTION INFORMATION

SELECTION PROCESS

Α	Gather Process Information
	Line Fluid / Pressure / Temperature /
	Flow Rate / Location / Function

B Gather Pipe Information Size / Material / Flange Rating / Schedule

- C **Select Valve Size** Based on:
 - Full open valve at minimum flow
 - or Pipe size

D Select Design Standard

• ASME: 125 / 150 / 300

• API 594: 150 / 300 / 400 / 600 / 900 / 1500 / 2500

• PN: 10 / 16 / 25 / 40

E Verify Conditions

- Valve full open at minimum flow
- Max velocity 15 f/sec for Liquid
- Max velocity Mach 0.33 for Gas
- Non-reciprocating service
- No accessories required
- Installed with a minimum of 5 pipe diameters upstream and 3 down stream from a disturbance
- Not installed on close coupled multiple pump header

F Select Model

If answer is **YES** to All conditions:

- Select Model 210 (ASME, DIN) Models 201 - 205 (API 594)
- or if ULC FM* approved required select 212 (ASME), 312 (DIN)

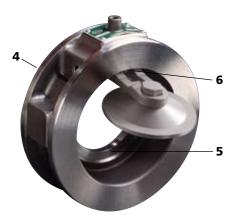
If answer is **NO** to Any condition: Select Model 260 (ASME, DIN) Models 201 - 205 (API 594)

G Select Pressure Class and Body, **Seat & Spacers Materials**

ORDERING EXAMPLE

A 6" heavy duty, Class 150 wafer combination swing check valve, carbon steel body with stainless steel inserted seat, stainless steel spacers and an external spring accessory would be written as follows:

06 15 SMZ SA01



		Description	Color
1 Size	01-60	1"- 60" ASME 25mm-1500mm DIN	
2 Model	201 203 205 210 212 312 260 211	API 594 #400/600 API 594 #900/1500 API 594 #150/300 Standard ASME / DIN ULC FM Approved ASME * ULC FM Approved DIN * Heavy Duty ASME / DIN Flanged Body	Grey Grey Grey Red Red
3 Pressure Class	10 12 15 16 25 30 40	PN 10 ASME 125 lb ASME 150 lb PN 16 PN 25 ASME 300 lb PN 40 Other	
4 Body	C D S X T —	ASTM A 126 CLB ASTM A 395 ASTM A 216 WCB ASTM A 351 CF8M Titanium Other **	Black Green Yellow (Class 300) Blue (Class 150) None None
5 Seat	B E M T V	BUNA -N EPDM A240 - 304 (Inserted or Integr PTFE Viton	ral) ***
6 Spacers	T Z –	PTFE (Standard on 1"-12"Cas A479 - 316 Other **	t Iron Bodies)
7 Special Application Accessories	SA-01 SA-1 SA-2 SA-3 SA-4 SA-4A SA-7 SA-10 SA-16 SA-40	External Spring External Spring & Weight Limit Switch Backflush Lever and External S External Position Indicator Backflush Lever Emergency Shut-off, Fusible L Dual Balanced Weights External Weight External Compression Spring	

3A-1	External Spring & Weight
SA-2	Limit Switch
SA-3	Backflush Lever and External Spring
SA-4	External Position Indicator
SA-4A	Backflush Lever
SA-7	Emergency Shut-off, Fusible Link
SA-10	Dual Balanced Weights
SA-16	External Weight
SA-40	External Compression Spring
SA-40A	External Compression Spring and Weight
H-100	External Spring, Weight, Hydraulic Damper
SA-50	External Compression Spring, Weight,
	& Hydraulic Damper
_	Other

- * ULC Approved under NFPA No. 11,13,14,15,20,22,24. FM Approved.
- ** Available in most exotic materials, please consult factory.
- *** Inserted pressed-in interference seat at a minimum of 304 SS for carbon steel and ductile iron bodies, or seat is intergral to body.

Note: Spacers are located on both sides of the disc hinge, ensuring a uniform seal.

Note: The standard Check Rite is a wafer body style. Flanged Ends, RTJ style and other connections are available, please consult factory.

Models 210	(VNICI)	205 (AD	I 50/I)	Class	125/150
wodels z iu	(AIVSI).	. ZUD (AP	I 334 <i>I.</i>	Class	123/134

IVIOU	C13 Z 1	IO (MIE	31), 203	(7113	J+/, C	u33 12	<i>31</i> 1 3 0								
	minal	_	A	. A		В		С	D				eight	Weight 205 SS	
Pipe	Size		210	20)5	210/	205	_				210 SS			5 22
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
1	25	2	50.8			2 ⁵ /8	66.7	3.4	86.3					1.9	0.85
1 1/2	40	2 1/2	63.5			3 3/8	85.7	4 ¹ / ₈	104.7			3.8	1.8		
2	50	1 3/4 2	1/8* 44.5	2 3/8	60.3	4 ¹ / ₈	104.8	4 1/4	107.9	1 ³ / ₁₆	30.1	4.2	1.9	6.0	2.7
2 1/2	65	1 ⁷ /8 2 ³	3/8* 47.6	2 ⁵ /8	66.7	4 ⁷ /8	123.8	4 ¹ / ₂	114.3	1 ³ / ₈	34.9	6.1	2.8	9.0	4.1
3	80	2 2 5	5/8* 50.8	2 ⁷ /8	73.0	5 ³ /8	136.5	5	127.0	1 ⁵ / ₈	41.2	8.4	3.8	13.0	5.9
4	100	2 1/4	57.2	2 ⁷ /8	73.0	6 ⁷ /8	174.6	5 3/4	146.0	2 3/4	69.8	13.5	6.2	19.3	8.75
5	125	2 1/2	63.5	3 ¹ / ₄	82.5	7 3/4	196.9	6 ¹ / ₂	165.1	3 ⁵ / ₈	92.0	18.1	8.2	23.0	10.4
6	150	2 ³ / ₄	69.9	3 ⁷ /8	98.4	8 ³ / ₄	222.3	7 ¹ / ₄	184.5	4 ¹ / ₂	114.3	22.5	10.2	34.0	15.4
8	200	2 ⁷ /8	73.0	5	127.0	11	279.4	8 ¹ / ₄	209.5	5 ³ / ₄	146.0	34.5	15.7	65.0	29.5
10	250	3 ¹ / ₈	79.4	5 3/4	146.0	13 ³/ ₈	339.7	9 5/8	244.4	7 1/2	190.5	50.9	23.1	88.1	40
12	300	3 3/8	85.7	7 1/8	181.0	16 ¹ / ₈	409.6	10 3/4	273.0	8 3/4	222.2	83.7	38.0	154.2	70
14	350	4 ¹ / ₄	108.0	7 ¹ / ₄	184.0	17 ⁵ /8	447.7	13	330.2	7 1/4	184.1	115.0	53.0	200	90.8
16	400	4 ¹ / ₄	108.0	7 ¹ / ₂	191.0	20 ¹ /8	511.2	14 ¹ / ₂	368.3	8 ¹ / ₄	209.5	130.0	59.0	230	104.4
18	450	4 1/4	108.0	8	203.0	21 ¹ / ₂	546.1	15 ¹ / ₄	387.3	10 ¹ / ₂	266.7	170.0	77.2	320	145.3
20	500	5 ¹ / ₂	139.7	8 5/8	219.0	23 3/4	603.3	18 3/4	476.2	11	279.4	230.0	104.4	360	163.4
24	600	6	152.4	8 3/4	222.0	28 ³ / ₁₆	716.0	20 1/2	520.7	15	381.0	385.0	175.0	560	254.2
28	700	6 ¹ / ₂	165.1			32 ⁵ /8	828.7	26	660.4	17 ³ / ₄	450.8	580.0	263.3		
30	750	9	228.6	12	305.0	34 5/8	879.5	27 ¹ / ₂	698.5	16 ¹ / ₄	412.7	965.0	438.1	1300	590.2
32	800	9	228.6			36 ¹³ / ₁₆	936.8	29	736.6	16 ³ / ₄	425.4	1235.0	560.7		
36	900	11 ¹ / ₂	292.1	14 ¹ / ₂	368.0	41 ¹ / ₈	1044.6	30	762.0	18 ¹ / ₄	463.5	1525.0	692.4	2000	908.0
40	1000	11 ¹ / ₂	292.1			45 ⁵ /8	1158.9	35 ¹ / ₄	895.3	21 ¹ / ₂	546.1	2200.0	998.8		
42	1050	12	304.8	17	432.0	48	1219.2	33 ¹ / ₄	844.5	28	711.2	2235.0	1014.7	3200	1452.8
48	1200	14	355.6	20 5/8	523.9	54 ¹ / ₂	1384.3	38 1/4	971.5	24 1/2	622.3	3250.0	1475.5	3910	1775
54	1350	23	584.2			61	1549.4	43	1092.2	19 ³/ ₈	492.1	5500.0	2497.0		
60	1500	23	584.2			67 ³/s	1711.3	38 ¹ / ₄	971.5	33	838.2	7000.0	3178.0		

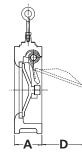


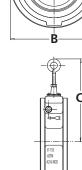
Models 210 (ANSI), 205 (API 594), Class 300

Non Pipe	ninal Size	<i>2</i> 1		20 20		B 210/		C	D			Weight 210		ight 05	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
1	25	2	50.8			2 7/8	73.0	3 ² / ₅	86.4			1.9	0.85		
1 1/2	40	2 1/2	63.5			3 3/4	95.2	4 1/8	104.8			4.4	2.0		
2	50	1 ³ / ₄	44.5	2 ³ /8	60.3	4 ³ / ₈	111.1	4 ¹ / ₄	108.0	1 ³ / ₁₆	30.0	4.0	1.8	8.4	3.8
2 1/2	65	1 ⁷ /8	47.6	2 5/8	66.7	5 ¹ / ₈	130.2	4 ¹ / ₂	114.0	1 1/2	38.0	5.9	2.7	13.2	6.0
3	80	2	50.8	2 7/8	73.0	5 ⁷ /8	149.2	5	127.0	1 11/16	43.0	7.9	3.6	15.4	7.0
4	100	2 1/4	57.2	2 7/8	73.0	7 1/8	181.0	5 3/4	146.0	2 7/16	62.0	11.9	5.4	22.5	10.2
5	125	2 1/2	63.5	3 ¹ / ₄	82.5	8 ¹ / ₂	215.9	6 ¹ / ₂	165.0	3 ³ /8	86.0	18.9	8.6	27.5	12.5
6	150	2 3/4	69.9	3 ⁷ /8	98.4	9 ⁷ /8	250.8	7 1/4	184.0	4 1/4	108.0	26.9	12.2	43.0	19.5
8	200	2 ⁷ /8	73.0	5	127.0	12 ¹ / ₈	308.0	8 1/4	210.0	5 ³ / ₈	136.0	41.9	19.0	76.0	34.5
10	250	3 ¹ / ₈	79.4	5 3/4	146.0	14 ¹ / ₄	362.0	9 5/8	244.0	7	178.0	61.7	28.0	109.0	49.5
12	300	3 ³ /8	85.7	7 ¹ / ₈	181.0	16 ⁵ /8	422.3	10 ³ / ₄	273.0	8 ¹ / ₈	206.0	94.7	43.0	198.2	90.0
14	350	8 3/4	222.3	8 3/4	222.0	19 ¹ / ₈	486.0	13	330.0	7 1/4	184.0	286.3	130.0	286.3	130.0
16	400	9 ¹ / ₈	231.8	9 1/8	232.0	21 1/4	540.0	14 ¹ / ₂	368.0	8 1/4	210.0	352.4	160.0	352.4	160.0
18	450	10 ³/ ₈	263.5	10 ³ / ₈	264.0	23 1/2	597.0	15 ¹ / ₄	387.0	10 ¹ / ₂	267.0	440.5	200.0	440.5	200.0
20	500	11 ¹ / ₂	292.1	11 ¹ / ₂	292.0	25 ³ / ₄	654.0	18 ³ / ₄	476.0	11	280.0	572.7	260.0	572.7	260.0
24	600	12 ¹ / ₂	317.5	12 ¹ / ₂	318.0	30 ¹ / ₂	774.0	20 ¹ / ₂	520.0	15	381.0	925.1	420.0	925.1	420.0

Model 201 (API 594), Class 600

IVIOUE	Model 201 (AFI 354), Class 600												
	Nominal Pipe Size A		B 400lbs 6			lbs	C	С		D		Weight	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg
2	50	2 ³ /8	60.3	4 ³ /8	111.1	4 ³ /8	111.1	4 ⁵ /8	117	1/2	13	7	3
2 1/2	65	2 5/8	66.7	5 ¹ /8	130.2	5 ¹ /8	130.2	5 ¹ /8	130	5/8	16	10	4.5
3	80	2 7/8	73	5 ⁷ /8	149.2	5 ⁷ /8	149.2	6	152	3/4	19	14.5	6.6
4	100	3 1/8	79.4	7	177.8	7 ⁵ /8	193.7	6 3/4	171	1 1/2	38	24	11
6	150	5 ³ /8	136.5	9 3/4	247.6	10 ¹ / ₂	266.7	9 ¹ / ₂	241	2 1/8	54	54	25
8	200	6 ¹ / ₂	165.1	12	304.8	12 ⁵ /8	320.7	10 ³ / ₄	273	2 3/4	70	96	44
10	250	8 3/8	212.7	14 ¹ / ₈	358.8	15 ³ / ₄	400	12	305	3	76	171	78
12	300	9	228.6	16 ¹ / ₂	419.1	18	457.2	14 ³ / ₄	375	4 ¹ / ₈	105	250	114





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